

The Problem of Automatic Mould Filling, by
A. M. Sharyakov.

RUSSIAN, per, Lit Proiz, No 12, 1959, p 41.

NLL M. 2363

Sci - Engr

174,986

Dec 61

Extraction of Metallic Inclusions From Spent
Moulding Mixtures, by V. A. Sheherbina.

RUSSIAN, per, Lit Proiz, No 12, 1959, p 42.

NLL M. 2363

Sci - Engr

Dec 61

174.985

First Russian Manual for Foundry Practice & Its
Author:- Mining Engineer Apollon Fedorovich Mevius, by
D. M. Modolevich.

RUSSIAN, per, Lit Proiz, No 12, 1959, pp 43-45.

DSIR N. 2364

USSR

Econ

Sep 61

168, 563

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Proizvodstvo.

RUSSIAN, per, Lit Proiz, No 12, 1959, p 45.

NLL E. 2365

Jan 62

Cast Iron for the Manufacture of Alkali-Resisting
Boilers, by K. I. Vashchenko, A. N. Firstov, P. V.
Avrinskiy.

RUSSIAN, per, Lit Proiz, No 1, 1960, pp 7-10.

BCIRA 1005

Sci - Engr

Sep 61

168, 587

Bolshakov, I. F. and Svyatkin, B. K.
EINE AUTOMATISCHE FLIESSSTRASSE ZUM
FORMEN, ZUSAMMENSETZEN UND AUSSCHLAGEN
VON GUSSSTUECKEN (Automatic Line for Molding,
Assembling and Shakeout of Castings). 8p.
Order from TIB \$1.55

Trans. in German of Litelnoe Proizvodstvo (USSR)
1960, no. 1, p. 16-19.

DESCRIPTORS: *Automation, *Molding, *Castings.

(Machinery--Manufacturing, TT, v. 9, no. 11)

62-27344

I. Bolshakov, I. F.
II. Svyatkin, B. K.
III. Technische Informations-
bibliothek, Hannover
(West Germany)

Office of Technical Services

Segregation in Centrifugal Steel Castings, by
N. N. Reutov.

RUSSIAN, per, Lit Proiz, No 1, 1960, pp 35, 36.

HB 5044

Sci - Min/Met

Jun 61

156803

Gorshkov, A. A.
GIESSEREIINSTITUT DER UKRAINISCHEN AKADEMIE
DER WISSENSCHAFTEN (Foundry Production Institute
of the Ukrainian Academy of Sciences). 11p.
Order from TIB \$2.00

Trans. in German of Litenee Proizvodstvo (USSR) 1960,
no. 1, p. 46-48.

DESCRIPTORS: *Casting, Production

(Machinery--Manufacturing, TT, v. 9, no.11)

62-27346

I. Gorshkov, A. A.
II. Technische Informations-
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(West Germany)

Office of Technical Services

Experimental Inoculation of Cast Iron With Cerium
Alloys, by E. M. Shkol'nikov, et al.

USSIAN, per, Lit Proiz, No 2, 1960, pp 36, 37.

HB 4873

id - Min/Met

pp 60

127,034

Influence of Composition and Heat Treatment of
Metal Alloys on the Feeding of Castings, by K. N.
Milityn,

RUSSIAN, per, Liteinoe Proizvodstvo, No 3, 1960,
pp 19-24.

GB/1

Sci
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Use of Endothermic Sleeves for Heating of Powder
Heads on a Steel Armature Casting, by I. O.
Schelutsky.

RUSSIAN, per, Lit Proiz, No 3, 1960, p. 32.

BCIRA 1012

Sci - Chem

193, 716

May 62

CASTING IN ANDDISSED MOULDS, BY O. L.
PETROV.

RUSSIAN, PER, LIT PROIZ, NO 4, 1960, P 46.

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SCI - ENGR

173,189

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Dimensional Accuracy and Surface Finish of
Castings, by I. I. Goryunov.

Aluminum Lab, No 5, 1960, 129,677.

Aluminum Lab

Sci - Engr

Oct 60

129,677

S. G. Iron for Mining Machine Components, by
L. P. Gorushkina, et al.

RUSSIAN, per, Lit Proiz, No 5, 1960, pp 42. 43.

BISI 2150

Scl - Min/Met

Jan 61

154816

Effect of Calcium Upon Graphic Structure in Cast
Iron, by F. N. Tavadze, Sh. S.
Katsitsadze.

RUSSIAN, per, Lit Proiz, No 6, 1960, pp 29, 30.

HB 4884

Sci - Chem, Min/Met

Sep 60

127,036

CONVEYORIZED FURNACE FOR ANNEALING OF PIPE,
BY A. V. SKVORTSOV.

RUSSIAN, PER, LIT PROIZ, NO 6, 1960,
PP 42-43.

HB 5187

SCI - ENGR
AUG 62

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Another Note on the Deoxidation of Steel With
Aluminum, by G. S. Ovsyuk.

RUSSIAN, per, Lit Proiz, No 6, 1960,
pp 47, 48.

HE 5024

Sci - Chem

Jan 61

136,579

(NY-2900/25)

Mechanized Continuous Line of Sandblast Machine
Molding, by A. S. Shuper, L. Ya. Melekhin, 8 pp.

RUSSIAN, per, Liteynoye Proizvodstvo, No 7, 1960,
pp 14-16.

JPRS 7252

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Jan 61

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Girshovich, N. G.
THE EFFECT OF SUPERHEATING DURING MELT-
ING AND MODIFICATION ON THE PROPERTIES OF
GREY CAST IRON. [1961] 13p.
Order from ATS \$19.45

ATS-09N56R

Trans. of Litelnoe Proizvodstvo (USSR) 1960, no. 7,
p. 26-32.

DESCRIPTORS: *Cast iron, Heat treatment, Melting.

RJ-3843

(Metallurgy--Ferrous Metals, TT, v. 7, no. 4)

62-12155

- I. Girshovich, N. G.
- II. ATS-09N56R
- III. Associated Technical
Services, Inc., East
Orange, N. J.

Office of Technical Services

Casting of Metals With the Pouring System (Instead
of the Mold) Being Vibrated, by G. F. Balandin.

RUSSIAN, per, Lit Proiz, No 7, 1960, pp 34-36.

HB 4908

Sci - Engr

Oct 60

129,106

Operating Experiences With [Natural] Gas-Fired
Cupolas, by P. L. Shkurupiy, A. G. Arnopolin.

RUSSIAN, per, Lit Proiz, No 9, 1960, pp 12, 13.

HE 5098

Sci - Engr

Apr 61

147,468

Skvortsov, A. V.
COKE+GAS-FIRED, HOT-BLAST CUPOLA WITH
WATER-COOLED MELTING ZONE, PRODUCING
20 TONS OF METAL PER HOUR. Sep 61, 1000
words.

Order from file \$3.00

HB-5202

Trans. of Leningradskoe Proizvodstvo (USSR) 1960, no. 9,
p. 13-16.

DESCRIPTORS: USSR. *Cupola furnaces, Design.
Natural gas. Coke. Gases. Fuel oils. Heating. Indus-
trial production. Iron industry. Water. Cooling.
Melting. Control. Automation.

(Metallurgy, TT, v. 6, no. 11)

61-25595

I. Skvortsov, A. V.
II HB-5202
III. Brucher, Henry, Altadena
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Computer Calculation of Temperature Distribution
in Cupolas, by L. M. Marienbakh, A. M. Shapiro.

RUSSIAN, per, Lit Proiz, Sep 1960, pp 25-28.

HB 5125

Sci - Engr

Jun 61

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RADIOACTIVE ISOTOPE STUDY OF CRYSTALLIZATION OF
ALUMINUM DURING CONTINUOUS CASTING, BY V. I.
DOBATKIN, B. I. SIMAKOVSKIY, 12 PP.

RUSSIAN, PER, LITEVNOYE PROIZVODSTVO, NO 10,
1960, PP 34-36.

JPRS 19372

SCI - M/M
MAY 63

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~~On the Problem of~~ Hot Cracking of Castings and
Welds, by A. A. Bochvar, et al.

RUSSIAN, per, Lit Proiz, Oct 1960, pp 47.

HB 5029

Sci - Engr

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Overall Mechanization and Automation of Foundry
Production,

RUSSIAN, per, Liteynoye Proizvodstvo, Nov 1960,
p 1.

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6 Feb 61

(NY-2900/40)

Mechanization and Automation of Large-Series
and Mass Production Foundries, by N. A. Strubov,
4 pp.

RUSSIAN, per, Liteynoye Proizvodstvo, No 11,
1960, pp 2-5.

JPRS 9071

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62-12199

Pivko, V. M.
MECHANIZATION AND AUTOMATION OF TRANS-
PORT IN THE FOUNDRY INDUSTRY. [1961] 21p.
Order from STT \$15.00 STT-146-205

Trans. from Liteinoe Proizvodstvo (USSR) 1960,
no. 12.

DESCRIPTORS: *Foundries, *Ores, Transportation,
*Automation.

(Metallurgy, TT, v. 7, no. 4)

- I. Pivko, V. M.
- II. STT-146-205
- III. SCIENTEC, Scientific and
Technical Translations,
Cleveland, Ohio

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J.
In the Foundries of Czech^olovakia, by V. M.
Shestopal.

RUSSIAN, per, Lit Proiz, No 12, 1959, pp 5-7.

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EEur - Czechoslovakia

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Jun 61

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Chimlinov, V. V. and Borodina, E. P.
SCHNELLTROCKEN-RINDEMITTEL AUF SULFITAB-
LAUGEBASIS (Quick-drying Binder Based on Sulphite-
alcohol Distillery Refuse). 6p.
Order from Tili \$1.30

Trans. in German of Liteinoe Proizvodstvo (USSR)
1960, no. 12, p. 10-11

DESCRIPTORS: *Binders, *Sulfites, *Alcohols,
Distilling plants.

(Engineering--Chemical, TT, v. 9, no. 11)

62-27347

I. Chimlinov, V. V.
II. Borodina, E. P.
III. Technische Informations-
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(West Germany)

Office of Technical Services

Bogdanovskii, M. N. and Repkina, V. I.
VORGÄNGE AN DER GRENZE METALL-FORM
(Processes on Metal-mold Boundary). 9p.
Order from TIB S1.70

Trans. in German of Liteinoe Proizvodstvo (USSR)
1960, no. 12, p. 30-32

DESCRIPTORS: *Metals, *Molding

(Machinery--Manufacturing, TT, v. 9, no. 11)

62-27348

- I. Bogdanovskii, M. N.
- II. Repkina, V. I.
- III. Technische Informations-
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(West Germany)

Office of Technical Services

Crystallization of Steel Under Mechanical Pressure,
by B. B. Oulyayev, et al.

RUSSIAN, per, Lit Prois, No 12, 1960, pp 33, 34.

HB 5111

Sci - Chem

Apr 61

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Investigation of Heat-Resisting Steel As-Cast and
As-Forged, by B. M. Kolobashkin.

RUSSIAN, per, Lit Rer Proiz, No 12, 1960, pp 34-36.

HB 5180

Sci

Aug 61

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62-27349

Pol', V. [G.]
IMPFEN VON GUSSEISEN BEIM HALBSTRANG-
GIESSEN VON ROHREN (Cast Iron Modification in
Semicontinuous Pipe Casting). 3p.
Order from TIB \$0.95

Trans. in German of Litelnoe Proizvodstvo (USSR)
1960, no. 12, p. 41-42.

DESCRIPTORS: *Cast Iron, Casting, *Pipes.

I. Pol', V. G.
II. Technische Informations-
bibliothek, Hannover
(West Germany)

(Machinery --Manufacturing, TT, v. 9, no. 11)

Office of Technical Services

VOL 12, 1961

LITAYNOE PROIZVODSTVO - monthly
(Russian Casting Production)
Translation begins with 1961, Vol. 12
Log time: 12 months
Order from: The British Cast Iron
Research Association
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Birmingham
1971: £ 18.00.0/year U.K.
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CR-264-62

Konstantin Il'ich Vashchenko, on the occasion of his
60th birthday. J pp

RUSSIAN, per, Liteynoye Proizvodstvo, no 5, 1961.

JPRS/Y-7396

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Bio.

Feb 63

Vacuum Treatment of Gray Cast Iron, by
V. P. Migai.

RUSSIAN, per, Liteinoe Proizvodstvo, No 1,
1963, pp 25, 26.

HB 5916

Sci-MEM
May 63

229,816

Production of Quality Castings of Titanium-
Stabilized 18-9 Steel, by V. P. Smolyakov,
E. I. Noshkevich.

RUSSIAN, per, Liteinoe Proiz, No 2, 1963,
pp 7, 8.

HB 5914

Sci-MMM
May 63

229,823

The Crystallization of Liquid Metal in Oscillatory Centrifugal
Casting, by P. N. Bidulya, A. L. Baldov.
RUSSIAN, per, Lit Proiz, No 9, 1963, pp 28, 29.

HB 6159

Sci - M/M

Mar 64

250,787

Automatic Control of Air Blast in Cupolas, by V. Ya. Soltyk,
A. V. Kilbus.
RUSSIAN, par, Lit Proiz, No 10, 1963, p 15.

HB 6153

Sci - M/M

Mar 64

250,788

Volume Diffusion in Steels, by F. N. Tavadze.
RUSSIAN, per, Liteynoye Proizvodstvo, No 10,
1963, pp 26-28.
*CFSTI TT 70-59124

Sci-
June 70

Large Nonferrous Alloy Centrifugal Castings, by G. I. Shandrenko,
A. D. Gridin.
RUSSIAN, per, Lit Proiz, No 10, 1963, p 45.

HB 6148

Sci - M/M

Mar 64

250,800

Problems in the Manufacture of an Ethylsilicate
Covering for Investment Casting, by Z. K. Ancheeva,
M. H. Yefimova, 15 pp.
RUSSIAN, per, Liteynoe Proiz, No 1, 1964, pp 2-5.
JPRS 25135

Sci - M/M
Jun 64

262,013

Action of a Pulsating Gas Stream on Liquid Metal, by
A. A. Alov, V. M. Shmakov.

RUSSIAN, per, Liteynoye Proizvodstvo, No 1, 1964,

pp 16, 17.

HB 6222

111-53284, 1964, (5502)

Sci - M/M

Apr 64

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Fundamentals of Investment Casting, by A. A. Tager,
S. V. Myshalov, et al. (F-1879)

RUSSIAN, per, Liteynoye Proiz, No 1, 1964, pp 42, 43.

*JPRS

Sci - M/M
Apr 64

Investigation of Some Casing Alloys for
High Precision Parts, by M. L. Khenkin,
N. K. Leniva, et al, 17 pp.
RUSSIAN, per, Ligynoye Proizvod, No 3, 1964,
pp 267-31.
JPRX 25391

Sci - M/M
Jul 64

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New Computers, by M. I. Loskutov, 10 pp.
RUSSIAN, per, Litovoye Proiz. No 6, 1964,
pp 19-22. 9696024
FTD-TT-64-928

Sci - Engr
Apr 65

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Automated Systems of Control by Means of Computer
Equipment Facilities, by V.I. Loskutov, 9pp
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1964, pp. 20-26
JCS 2701

Sci-Math Data Processing
Jan 65

REF, 352

Low Alloy Steel for Tractor Tracks, by
P. A. Bekerman.
RUSSIAN, per, Litoynoye Proiz, No 9, 1964,
P 1.

ACSI 1-7240
ID 2204016865

Sci = M/M
Jun 65

F-13

NCH-200 549

Field 11F, 13H

Luzan, P. P.
THE SELECTION OF PIG IRONS FOR THE PRODUCTION
OF S.G. IRON CASTINGS. Dec 64, 8p (foreign text in-
cluded) 2refs. NLL-M.5828; DNC-Trans-64/262.
Order from NLL as M.5828

Trans. of Liteinoe Proizvodstvo (USSR) n9 p8-10 1964.
See also 'Translated or Abstracted Publications,' in
TT Vol. 14, No. 8.

I. International Nickel Co.
(Mond) Ltd.,
London (England)

NCH-200 550

Field 11F

Sorokin, P. I.; Fominykh, L. P.; Bespalov, Y. G.
THE TREATMENT OF CUPOLA IRONS WITH ALLOYS OF
RARE-EARTH METALS. Dec 64, 18p, (foreign text
included) 42refs. INC-TRANS-64/263; NLL-M.5629.
Order from NLL as M.5629

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See also 'Translated or Abstracted Publications,' in
TT Vol. 14, No. 8.

I. International Nickel Co.
(Mond) Ltd.,
London (England)

Microstructure of Magnesium-Treated Cast Iron Contain-
ing Arsenic, by P. P. Luzan.
RUSSIAN, per, Lit Proiz, No 10, 1964, pp 7, 8.
HB Tr No 6426

Sci - M/M
Feb 65

~~234x~~
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Effect of Cerium on the Wear Resistance of Austenitic
Manganese Cast Steel, by L. I. Pirfenov, M. V. Karakula.
RUSSIAN, per, Lit Proiz, No 10, 1964, pp 8, 9.
HB Tr No 6234

Sci -M/M
Feb 65

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R-5821-D

7 Sept 65

A Ductless Leading Magneto Dynamic Pump for Liquid Metals

By: V. P. Polrishuk, V. S. Yakovlev

From: LITEYNOYE PROIZVODSTVO No 12, 1964 pp 22 (1 pp)

Russian - est for wds:

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Results of the Twentieth All-Union Scientific and Technical Conference on Foundry Production, By S. A. Kandash, 10 pp.
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JPRS 85,625

Sci-Misc.
May 66

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Botvinkina, L. N., Zhemchuzhnikov, Yu. A.,
Timofeev, P. P., Feofilova, A. P., and Yablokov,
V. S.

ATLAS OF LITHOGENETIC TYPES OF COAL-
BEARING DEPOSITS OF THE MIDDLE CARBONI-
FEROUS OF THE DONETS BASIN. [1963] [90p]

Order from OTS, SLA, or ETC \$8.10 TT-64-14542

Trans. of mono. Litogeneticheskikh Tipov Uglenosnykh
Otklozhenii Srednego Karbona Donetskogo Basseina,
Moscow, 1956.

DESCRIPTORS: Documentation, *Petrology, *Coal, Rock,
(Geology), Classification, Geology.

(Earth Sciences--Mineralogy, TT, v. 11, no. 19)

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- I. Title: Atlas (Geological)
- I. Botvinkina, L. N.
- II. Zhemchuzhnikov, Yu. A.
- III. Timofeev, P. P.
- IV. Feofilova, A. P.
- V. Yablokov, V. S.

Correlation of relative Amounts of Authi-
genic Iron and Organic Carbon in Paleocene-
eocene Sedimentary Rocks of the Dagestan
Foothills.

By B. A. Akaev, V. L. Galin, 9 pp.

RUSSIAN, per, Litologiya i Poleznye
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1964, pp. 93-98.

CFSTI TT 68-50610

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Lithuanian BSSR, by P. A. Gargasas, 126 pp.

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pp 3, 4, 45-128.

JPRS 9536

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Econ - Geog - Soc

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The Pock Self-Consistent Field for a 6d Val-
ence Electron in the Lithium Atom, by I. T.
Martishius.

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Vol I, NO 1/2, 1961, pp 97-100.,
AFCRL T-R-483

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**The Expressions of the Matrix Elements of the Operator
of the Electrostatic Interaction for Different Vector
Coupling Schemes, by S. D. Budrite, Ya. I. Vizharayte,
et al, 8 pp.**

**RUSSIAN, per, Litovskiy Fizicheskiy Sbornik, Vol I,
No 3, 4, 1961, pp 282-289. 9226322
ABC-ANL-Tr-122**

**Sci-Phys
Jan 65**

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Selection of Initial Data for Numerical Solution of Self-Consistent-field Equations, by A. Kantseriavichius, RUSSIAN, per, Litovskiy Fizicheskiy Sbornik, Vol 1, No 3/4, 1961, pp 299-318. AFCEI R-T-484

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The General Consideration of the Interaction Operator
Matrix Element of Two Atomic Electrons,
by A. A. Bandsaytis, Ya. I. Vizbarayte, et al, 15 pp.
RUSSIAN, per, Litovskiy Fizicheskiy Sbornik, Vol II,
No 1, 2, 1962, pp 61-74. 9226577
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English Title Unknown, by A. P. Yutsis,
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Sbornik, Vol II, No 1/2, 1962, pp 91-100.
NLL 8881.17 (1650)

Sci-Fisc
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On the Calculation of the Matrix Elements of Operators
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Ya. I. Vizbarayte, et al, 13 pp.
RUSSIAN, per, Litovskiy Fizicheskiy Sbornik, Vol II,
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AEC-ANL-Tr-125

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Jan 65

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Probability of Electron Transitions of Atoms in
Nonhomogeneous Electrical Fields with Arbitrary
Angular Dependence. New Method of Calculation,
by V. M. Hulmistrov, 15 pp.
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Vol 3, No 1, 1963, pp 93-104. P100196668-V
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The Present Status of the Quantum-Mechanical Calculation of the Atom and Problems to be Solved in the Near Future, by A. P. Yutsis, 24 pp.
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AEC-ANL-Tr-102

Sci-Phys
Jan 65

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Method of Field-theoretic Green's Functions in
Atomic and Molecular Problems, by V. V. Tolmachev,
34 p.
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AFCL T-R-546

Sci-Nucl Sci
Jun 66

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Navy Res. Lab. 00173-9-006076

R-9604-D
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The collective excited states of a heavy atom
By: V. H. Alyamovskiy and D. A. Kirzhnits
From: Lietuvos Fizikos Rinkiny (Litovskiy fizicheskiy
sbornik), Vol. 3 No 1-2, 1963:79-91
Russian - est for wds:

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The Effect of the Orbit-Orbit Interaction in the Case
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The Current Status and Problems of the Calculation of
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RUSSIAN, in, Litovskii Fizicheskii Sbornik, Vol III,
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Amer Meteorol Soc

T-R-459

NLL 7773.25 1963 T-R-459⁺

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The Application of the Methods of Coefficients
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J. Chem. Phys., per. Literature Electrostatics,
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Calculation of the Diborane (B_2H_6) Molecule in
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and M. G. Veselov.
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NLL RTS 3610

Sci-Chem
Nov 67

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On the Calculation of Two-Electron Matrix Elements
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Z. B. B Rudzikas, et al, 13 pp.
RUSSIAN, per, Litovskiy Fizicheskiy Sbornik, Vol III,
No 3, 4, 1963, pp 365-376. 9226576
ABC-ANL-Tr-110

Sci-Phys
Jan 65

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Numerical Calculation of Contributions from
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